AMENDMENTS TO THE CLAIMS

Claim 1 (Cancelled)

2. (Previously Presented) The method according to claim 14, wherein the first and second portions of the silicon layer initially have the same thickness.

- 3. (Previously Presented) The method according to claim 14, wherein the step of partially removing the first portion of the silicon layer includes etching the first portion.
- 4. (Original) The method according to claim 3, wherein the step of partially removing the first portion of the silicon layer includes depositing a resist over the silicon layer and exposing and developing the resist to expose the first portion of the silicon layer.
- 5. (Original) The method according to claim 3, wherein the thickness of the first portion is determined by etching the first portion for a predetermined length of time.
- 6. (Previously Presented) The method according to claim 14, wherein the step of partially removing the first portion of the silicon layer includes oxidizing the first portion of the silicon layer and removing the oxidized silicon.
- 7. (Original) The method according to claim 6, wherein the step of partially removing the first portion of the silicon layer includes depositing a mask layer and a resist over the silicon

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layer and exposing and developing the resist to expose a portion of the mask layer over the first

portion of the silicon layer and removing the mask layer over the first portion of the silicon layer.

8. (Original) The method according to claim 7, further comprising the step of removing

the mask layer.

9. (Original) The method according to claim 7, wherein the mask layer is an

antireflective material.

10. (Previously Presented) The method according to claim 7, wherein the mask layer is

silicon nitride.

11. (Currently Amended) The method according to claim 14, wherein the first portion of

the silicon layer is immediately adjacent the second portion, and the first portion and the second

portion are separated by an isolating feature isolating features are formed before the first portion

of the silicon layer is partially removed.

12. (Currently Amended) The method according to claim 16 [[14]], wherein the first

portion of the silicon layer is immediately adjacent the second portion, and the first portion and

the second portion are separated by an isolating feature isolating features are formed after the

first portion of the silicon layer is partially removed.

13. (Cancelled)

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14. (Currently Amended) A method of manufacturing a semiconductor device, comprising the steps of:

providing a silicon layer over an insulating layer, the silicon layer including a first portion and a second portion;

partially removing the first portion of the silicon layer, wherein a thickness of the second portion is greater than a thickness of the first portion; and

forming a first transistor in the first portion and a second transistor in the second portion, wherein:

the first transistor includes first source/drain regions and the second transistor includes second source/drain regions, and a depth of the second source/drain regions <u>is</u> greater than a depth of the first source/drain regions,

the first source/drain regions are formed with a first dopant and the second source/drain regions are formed with a second dopant, and

the diffusivity of the second dopant into silicon is greater than the diffusivity of the first dopant into silicon.

15. (Currently Amended) The method according to claim 14, wherein the first transistor is a N-type transistor and the second transistor is a P-type transistor the first source/drain regions are formed with a first dopant and the second source/drain regions are formed with a second dopant, and the diffusivity of the second dopant into silicon is greater than the diffusivity of the first dopant into silicon.

16. (Currently Amended) A semiconductor device, comprising:

an insulating layer;

a silicon layer over the insulating layer, the silicon layer including a first portion and a

second portion; and

a first transistor is formed in the first portion and a second transistor is formed in the

second portion, wherein

a thickness of the second portion is greater than a thickness of the first portion,

and

the first transistor includes first source/drain regions and the second transistor

includes second source/drain regions, and

a depth of the second source/drain regions greater than a depth of the first

source/drain regions,

the first source/drain regions are formed with a first dopant and the second

source/drain regions are formed with a second dopant, and

the diffusivity of the second dopant into silicon is greater than the diffusivity of

the first dopant into silicon.

Claim 17 (Cancelled)

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18. (Currently Amended) The semiconductor device according to claim 16, wherein the first transistor is a N-type transistor and the second transistor is a P-type transistor the first transistor includes source/drain regions formed with a first dopant and the second source/drain regions formed with a second dopant, and the diffusivity of the second dopant into silicon is greater than the diffusivity of the first dopant into silicon.

Claims 19-20 (Cancelled)